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ABSTRACT

This is the first in the fourth series of general bibliographies developed to disseminate information on documents analyzed at the ERIC Information Analysis Center for Science and Mathematics Education. Reported are 428 citations of selected documents related to instructional procedures in science and mathematics education. The documents include research reports, research reviews, manuals, speeches, textbooks, and other document types. Entries are listed in alphabetical order by author under science education, mathematics education, and general. An author index is provided. Citations include author, source, availability, and major ideas of the document. This bibliography updates, but does not replace bibliographies 1, 11, and 21. (RR)

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SCIENCE AND MATHEMATICS EDUCATION INFORMATION REPORT

GENERAL BIBLIOGRAPHY SERIES
BIBLIOGRAPHY 31

INSTRUCTIONAL PROCEDURES

ERIC Information Analysis Center for Science
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SCIENCE AND MATHEMATICS EDUCATION INFORMATION REPORTS

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HEINLEIN, C. LEROY
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HILL, KATHERINE E.
SCIENCE IN THE ELEMENTARY SCHOOL - A LOOK AHEAD
SCIENCE AND CHILDREN
02 00 69 7
*ELEMENTARY SCHOOL SCIENCE, CURRICULUM DEVELOPMENT, EDUCATIONAL FACILITIES, INSTRUCTIONAL MATERIALS, INSTRUCTION, INDIVIDUALIZED INSTRUCTION, TEACHER EDUCATION, NATIONAL SCIENCE TEACHERS ASSOCIATION

106. SE 500 182
HOSKISSON, KENNETH
SEALED BOXES - ELEMENTARY SCIENCE EXPERIENCE
SCIENCE AND CHILDREN
03 00 69 3
*DISCOVERY LEARNING, *ELEMENTARY SCHOOL SCIENCE, *INSTRUCTION, INQUIRY TRAINING, SCIENCE ACTIVITIES, TEACHING PROCEDURES

107. SE 006 486
HOSTE, R.
THE USE OF TRIBOLIUM BEETLES FOR CLASS PRACTICAL WORK IN GENETICS
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12 00 68 7
*GENETICS, *SCIENCE ACTIVITIES, *ZOOLOGY, BIOLOGY, INSTRUCTION, LABORATORY EXPERIMENTS, RESOURCE MATERIALS, SECONDARY SCHOOL SCIENCE

108. SE 500 897
HUDGINS, WILLIAM KENT; REED, RONALD E.
READING: THE SCIENCE TEACHER'S CONCERN
SCIENCE AND CHILDREN
11 00 69 3
*ELEMENTARY SCHOOL SCIENCE, *INSTRUCTION, *LEARNING, *READING, *READING COMPREHENSION, ABSTRACT REASONING, CONCEPT FORMATION, MOTIVATION, 1969

109. SE 500 382
HURLBURT, EVELYN M.
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*COLLEGE SCIENCE, *PHYSIOLOGY, *RADIOISOTOPES, *SCIENCE EXPERIMENTS, BIOLOGY, INSTRUCTION, MICROBIOLOGY, RESOURCE MATERIALS, UNDERGRADUATE STUDY

110. SE 006 202
INVENTASCH, HARVEY
A COMPARISON OF THE EFFECTS OF TEACHER-DIRECTED AND SELF-DIRECTED PROBLEM SOLVING ON ATTITUDES AND UNDERSTANDINGS IN SCIENCE
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68 135
*ACADEMIC ACHIEVEMENT, DOCTORAL THESES, GRADE 7, *INSTRUCTION, *PROBLEM SOLVING, RESEARCH REPORTS, *SECONDARY SCHOOL SCIENCE, *STUDENT ATTITUDES, 1968, STEP SCIENCE TESTS, TEST ON UNDERSTANDING SCIENCE, COOPERATIVE SCIENCE TESTS

111. SE 007 114
JACOBS, JOHN DALE
THE DEVELOPMENT AND EVALUATION OF A UNIFIED CHEMISTRY-PHYSICS COURSE TAUGHT BY A COOPERATIVE TEACHING METHOD FOR A TWO-YEAR PERIOD
PENNSYLVANIA STATE UNIVERSITY, UNIVERSITY PARK
UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
ED 031 399 NOT AVAILABLE FROM EDRS
67 308
CHEMISTRY, *CURRICULUM DEVELOPMENT, DOCTORAL THESES, GRADE 11, GRADE 12, *INTEGRATED CURRICULUM, PHYSICS, *SECONDARY SCHOOL SCIENCE, COOPERATIVE SEQUENTIAL TESTS OF EDUCATIONAL PROGRESS, COOPERATIVE SCIENCE TEST (CHEMISTRY), COOPERATIVE SCIENCE TEST (PHYSICS)

112. SE 007 344
JAQUES, DEREK
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*CHEMISTRY, *COLLEGE SCIENCE, CHEMICAL CALCULATIONS, *EQUILIBRIUM, *INSTRUCTION, *THERMODYNAMICS, 1965

113. SE 500 737
JENKINS, JERRY A.
AN EXPERIMENTAL INVESTIGATION OF THE EFFECTS OF STRUCTURED SCIENCE EXPERIENCES ON CURIOSITY AMONG FOURTH GRADE CHILDREN
JOURNAL OF RESEARCH IN SCIENCE TEACHING
69 8
*CURIOSITY, *ELEMENTARY SCHOOL SCIENCE, *INSTRUCTION, *INTEREST TESTS, CONCEPTUAL SCHEMES, GRADE 4, INTELLIGENCE LEVEL, SCIENCE ACTIVITIES, SCIENTIFIC CONCEPTS, 1969

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JENKS, HOUSTON CARTER
A STUDY OF INNOVATION ADOPTION BY TEACHERS FROM A CONSORTIUM OF SCHOOLS
UNIVERSITY OF TEXAS, AUSTIN
UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
ED 028 076 NOT AVAILABLE FROM EDRS
68 227
*ELEMENTARY SCHOOL SCIENCE, *INSERVICE TEACHER EDUCATION, *INSTRUCTION, *TEACHER BEHAVIOR, *TEACHER EDUCATION, DOCTORAL THESES, ELEMENTARY SCHOOL TEACHERS, RESEARCH REPORTS, TEACHER CHARACTERISTICS, TEACHING METHODS, TEACHING TECHNIQUES

115. SE 500 793
JOHNSON, STEVEN V.
INNOVATIONS IN BIOLOGY TEACHING
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116. SE 007 135
JONES, JOHN LINK
EFFECTS OF SPELLING INSTRUCTION IN EIGHTH-GRADE BIOLOGICAL SCIENCE UPON SCIENTIFIC SPELLING, VOCABULARY, AND READING COMPREHENSION; GENERAL SPELLING, VOCABULARY, AND READING COMPREHENSION; SCIENCE PROGRESS; AND SCIENCE ACHIEVEMENT
UNIVERSITY OF MARYLAND, COLLEGE PARK
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66 136
ACHIEVEMENT, *BIOLOGY, DOCTORAL THESES, GRADE 8, *INSTRUCTION, READING, RESEARCH REPORTS, *SPELLING, *SECONDARY SCHOOL SCIENCE, 1966

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JOSEPH, JOSEPH MARON; LIPPINCOTT, SARAH LEE
LET'S COUNT THE STARS!
SCIENCE AND CHILDREN
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*ASTRONOMY, *ELEMENTARY SCHOOL SCIENCE, *INSTRUCTION, *SCIENCE ACTIVITIES, PHYSICAL SCIENCES

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JOSLIN, PAUL HAROLD
A COMPARISON OF A TEAM APPROACH AND A CONVENTIONAL APPROACH ON ACHIEVEMENT IN HIGH SCHOOL BIOLOGY
UNIVERSITY OF ROCHESTER, NEW YORK
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ED 027 203 NOT AVAILABLE FROM EDRS
68 175
*ACHIEVEMENT, *INSTRUCTION, *SECONDARY SCHOOL SCIENCE, *TEAM TEACHING, ACADEMIC ACHIEVEMENT, BIOLOGY, COMPARATIVE ANALYSIS, DOCTORAL THESES, GRADE 10, SEQUENTIAL TEST OF EDUCATIONAL PROGRESS

119. SE 006 463
KARPLUS, ROBERT
WHAT IS CURRICULUM EVALUATION? SIX ANSWERS
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ED 027 231 NOT AVAILABLE FROM EDRS
12 00 68 59
*CURRICULUM, *EVALUATION, *ELEMENTARY SCHOOL SCIENCE, *INSTRUCTION, *SCIENCE COURSE IMPROVEMENT PROJECT, ELEMENTARY SCHOOL TEACHERS, ELEMENTARY SCHOOL STUDENTS, INSTRUCTIONAL MATERIALS, STUDENT CHARACTERISTICS, TEACHING METHODS, SCIENCE CURRICULUM IMPROVEMENT STUDY

120. SE 007 396
KASTRINOS, WILLIAM
INTERPRETATION OF DATA IN SCIENCE TEACHING
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12 00 62 6
*BIOLOGY, *CRITICAL THINKING, INTERPRETIVE SKILLS, *INSTRUCTION, RESEARCH REPORTS, *SECONDARY SCHOOL SCIENCE, STUDENT TESTING, TEACHING METHODS, NELSON BIOLOGY TEST, TEST OF ABILITY TO JUDGE INTERPRETATION OF DATA

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KATRITZKY, A. R.
TEACHING HETEROCYCLIC CHEMISTRY
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*CHEMISTRY, *COLLEGE SCIENCE, *CHEMICAL REACTIONS, COURSE OBJECTIVES, COURSE ORGANIZATION, HETEROCYCLIC CHEMISTRY, *INSTRUCTION, MOLECULAR MODELS, *ORGANIC CHEMISTRY, 1965

122. SE 005 136
KELLOGG, MAURICE GRANT
THE EFFECT OF LABORATORY-DISCOVERY METHODS AND DEMONSTRATION-DISCUSSION METHODS UPON ELEMENTARY SCIENCE METHODS STUDENTS' ABILITIES TO ANALYZE AND INTERPRET GRAPHS
INDIANA UNIVERSITY
UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
66 133
COMPARATIVE ANALYSIS, *COLLEGE SCIENCE, DOCTORAL THESES, *ELEMENTARY SCHOOL SCIENCE, *ELEMENTARY SCHOOL TEACHERS, GRAPHS, *INSTRUCTION, RESEARCH REPORTS, TEACHER CHARACTERISTICS, *TEACHER EDUCATION, TEACHING TECHNIQUES, INDIANA UNIVERSITY, 1966

123. SE 006 207
KELLY, JOHN WILLIAM
AN ANALYSIS AND EVALUATION OF A COORDINATED MASTER-TEACHER PROGRAM IN SOCIAL STUDIES AND IN SCIENCE AT THE FIFTH-GRADE LEVEL
FORDHAM UNIVERSITY, BRONX, NEW YORK
UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
67 153
ACHIEVEMENT, DOCTORAL THESES, *ELEMENTARY SCHOOL SCIENCE, *EDUCATIONAL PROGRAMS, GRADE 5, *INSTRUCTION, RESEARCH REPORTS, *SOCIAL STUDIES, TEACHING TECHNIQUES

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KING, L. CARROLL; COOPER, MILTON
EXPERIMENTAL APPROACH TO STOICHIOMETRY IN FIRST-YEAR CHEMISTRY AT NORTHWESTERN
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*CHEMISTRY, *COLLEGE SCIENCE, CHEMICAL REACTIONS, LABORATORY EXPERIMENTS, QUANTITATIVE ANALYSIS, RESEARCH TRAINING PROGRAMS, *STOICHIOMETRY, *SCIENCE ACTIVITIES, 1965

125. SE 500 176
KNAPP, CLIFFORD E.
THE SLOPE OF THE LAND
SCIENCE AND CHILDREN
03 00 69 2
*ELEMENTARY SCHOOL SCIENCE, *FIELD INSTRUCTION, *INSTRUCTION, INSTRUCTIONAL MATERIALS, OUTDOOR EDUCATION, SCIENCE EXPERIMENTS, SCIENCE ACTIVITIES

126. SE 500 189
KOCH, DAVID P.
TWO-SOURCE INTERFERENCE TRANSPARENCY
THE PHYSICS TEACHER
02 00 69 2
*AUDIOVISUAL AIDS, *INSTRUCTIONAL MATERIALS, *PHYSICAL SCIENCES, *PHYSICS, INSTRUCTION,OVERHEAD PROJECTORS, PROJECTION EQUIPMENT, TRANSPARENCIES

127. SE 500 601
KOLB, ALBERT C.
A SKY-HIGH CLASSROOM PROVIDES A NEW PERSPECTIVE FOR EARTH SCIENCE STUDENTS
THE SCIENCE TEACHER
10 00 69 2
*EARTH SCIENCE, *GRADE 8, *INSTRUCTION, *PHYSICAL GEOGRAPHY, COMMUNITY INVOLVEMENT, MAP SKILLS, 1969

128. SE 500 773
KONDO, ALLAN K.
CHILDREN CAN'T THINK
SCIENCE AND CHILDREN
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*ELEMENTARY SCHOOL SCIENCE, *INSTRUCTION, *PROBLEM SOLVING, ABILITY, CREATIVE THINKING, CRITICAL THINKING, STUDENT CHARACTERISTICS, STUDENT SCIENCE INTERESTS, 1969

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KOSER, JOHN F.
INDEPENDENT SCHEDULING ENHANCES INTRODUCTORY PHYSICAL SCIENCE PROGRAM
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10 00 69 3
*FLEXIBLE SCHEDULES, *INDIVIDUALIZED INSTRUCTION, *INSTRUCTION, *PHYSICAL SCIENCES, *SECONDARY SCHOOL SCIENCE, EVALUATION TECHNIQUES, 1969

130. SE 500 239
KROCKOVER, GERALD H.; GLASS, LYNN W.
ADDING PROCESS TO YOUR ELEMENTARY SCIENCE CONTENT UNIT
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04 00 69 3
*BIOLOGY, *ELEMENTARY SCHOOL SCIENCE, *INSTRUCTION, *RESOURCE MATERIALS, SKILL DEVELOPMENT, SCIENCE ACTIVITIES

131. SE 500 385
KUHN, DAVID J.
THE DUCKWEED
THE AMERICAN BIOLOGY TEACHER
05 00 69 2
*BOTANY, *INSTRUCTION, *SCIENCE EXPERIMENTS, BIOLOGY, RESOURCE MATERIALS, SECONDARY SCHOOL SCIENCE, SCIENCE ACTIVITIES, DUCKWEED

132. SE 500 747
LABAHN, WILLIAM F.
NEW STRATEGIES FOR TEACHING ELEMENTARY SCIENCE
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10 00 69 4
*ELEMENTARY SCHOOL SCIENCE, *EDUCATIONAL STRATEGIES, *INSTRUCTIONAL INNOVATION, *INSTRUCTION, *TEACHER ROLE, CONCEPT FORMATION, COMMUNICATION SKILLS, SCIENCE PROCESS SKILLS, SCIENCE PROGRAMS, 1969

133. SE 005 143
LENNEK, DAVID
OPEN-ENDED EXPERIMENTS IN JUNIOR HIGH SCHOOL SCIENCE - A STUDY OF THEIR EFFECT ON THE ACQUISITION OF SCIENCE INFORMATION, LABORATORY SKILLS AND ATTITUDES TOWARDS SCIENCE
COLUMBIA UNIVERSITY, NEW YORK, NEW YORK
UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
67 180
*ATTITUDES, *ACHIEVEMENT, ABLE STUDENTS, COMPARATIVE ANALYSIS, DOCTORAL THESES, GENERAL SCIENCE, GRADE 7, *INSTRUCTION, *LABORATORY EXPERIMENTS, RESEARCH REPORTS, STUDENT ACTIVITIES, *SECONDARY SCHOOL SCIENCE, STUDENT CHARACTERISTICS, TEACHING PROCEDURES, 1967, OTIS-QUICK SCORING MENTAL ABILITY TEST, COOPERATIVE SCIENCE TEST, WANTAGH JUNIOR HIGH SCHOOL, NEW YORK

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LERMAN, NOAH
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*COLLEGE SCIENCE, *EDUCATIONAL OBJECTIVES, *INSTRUCTION, *PHYSICS, PROBLEM SOLVING, TEACHING TECHNIQUES, UNDERGRADUATE STUDY

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LERNER, MORRIS R.
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NATIONAL SCIENCE TEACHERS ASSOCIATION, WASHINGTON, D.C.
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*COLLEGE SCIENCE, *INSTRUCTION, INSTRUCTIONAL MATERIALS, *PHYSICAL SCIENCES, PHYSICS, *SECONDARY SCHOOL SCIENCE, *SCIENCE EQUIPMENT, TEACHING METHODS, TEACHING TECHNIQUES, OSCILLOSCOPES

136. SE 500 380
LEROY, BROTHER
AMINO ACID CHROMATOGRAPHY
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*BIOLOGY, *CHROMATOGRAPHY, *SCIENCE ACTIVITIES, INSTRUCTION, LABORATORY TECHNIQUES, RESOURCE MATERIALS, SECONDARY SCHOOL SCIENCE

137. SE 006 716
LINDAMAN, ARNOLD D.
SCIENCE AS A PROCESS--CAN IT BE TAUGHT WITH INSTRUCTIONAL TELEVISION?
PLEASANT VALLEY COMMUNITY SCHOOL DISTRICT, IOWA
65 15
BIBLIOGRAPHIES, *DISCOVERY LEARNING, *ELEMENTARY SCHOOL SCIENCE, INSTRUCTIONAL TELEVISION, *INSTRUCTION

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LINSKY, RONALD B.
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*CONFERENCE REPORTS, *ELEMENTARY SCHOOL SCIENCE, *GENERAL EDUCATION, *OCEANOLOGY, *SECONDARY SCHOOL SCIENCE, SCIENCE ACTIVITIES, COLLEGE SCIENCE, EDUCATIONAL PROGRAMS, FIELD TRIPS, INSTRUCTION, PROGRAM DESCRIPTIONS, SCIENCE ACTIVITIES

139. SE 500 375
LOCKARD, J. DAVID
SHEDDING LIGHT ON THE LENS
SCIENCE AND CHILDREN
05 00 69 5
*ELEMENTARY SCHOOL SCIENCE, *INSTRUCTION, *MICROSCOPES, *SCIENCE ACTIVITIES, *SCIENCE EQUIPMENT, BIOLOGY, EARTH SCIENCE, MICROBIOLOGY, RESOURCE MATERIALS

140. SE 500 243
LOGAN, RALPH H., JR.
THE COULOMBIC LAW AS A TEACHING AID FOR CHEMISTRY
SCHOOL SCIENCE AND MATHEMATICS
04 00 69 3
*CHEMISTRY, *CHEMICAL BONDING, *INSTRUCTION, COLLEGE SCIENCE, SCIENTIFIC CONCEPTS, SECONDARY SCHOOL SCIENCE, COULOMBIC LAW

141. SE 006 217
MATTHEWS, JACK GIBSON
A STUDY OF THE TEACHING PROCESS IN THE CLASSROOM OF SELECTED PHYSICS TEACHERS
OHIO STATE UNIVERSITY, COLUMBUS
UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
ED 028 079 NOT AVAILABLE FROM EDRS
68 256
*INSTRUCTION, *PHYSICS TEACHERS, *PHYSICS, *SECONDARY SCHOOL SCIENCE, *TEACHER BEHAVIOR, COMPARATIVE ANALYSIS, DOCTORAL THESES, RESEARCH REPORTS, TEACHER CHARACTERISTICS, INTERACTION PROCESS ANALYSIS, PHYSICAL SCIENCE STUDY COMMITTEE

142. SE 005 148
MEILLER, ROY D.
THE TEACHING OF BIOLOGY AND PHYSICAL SCIENCE IN LARGE AND SMALL GROUPS IN ARLINGTON HIGH SCHOOL, ARLINGTON HEIGHTS, ILLINOIS, RESEARCH STUDY NUMBER 1
COLORADO STATE COLLEGE, GREELEY
UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
65 133
ACADEMIC ACHIEVEMENT, *ACHIEVEMENT, ATTITUDES, BIOLOGY, CHEMISTRY, DOCTORAL THESES, GRADE 9, GRADE 10, *INSTRUCTION, *LARGE GROUP INSTRUCTION, PHYSICAL SCIENCES, PHYSICS, SMALL GROUP INSTRUCTION, *SECONDARY SCHOOL SCIENCE, SCIENTIFIC ATTITUDES, *TEAM TEACHING, ARLINGTON HEIGHTS, ILLINOIS, 1965, ANDERSON CHEMISTRY TEST, NELSON BIOLOGY TEST, DUNNING PHYSICS TEST, PURDUE STUDENT ATTITUDE TEST

143. SE 500 261
METCALFE, JOHN A.
HOLES CAN HAVE TEACHING VALUE
SCIENCE AND CHILDREN
04 00 69 3
*BIOLOGY, *ELEMENTARY SCHOOL SCIENCE, *INSTRUCTION, *INQUIRY TRAINING, *SCIENCE ACTIVITIES, ANIMAL BEHAVIOR, ECOLOGY, OUTDOOR EDUCATION

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MEYER, JAMES H.
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10 00 69 3
*BIOLOGY, *INSTRUCTION, *SECONDARY SCHOOL SCIENCE, ACADEMIC ACHIEVEMENT, CRITICAL THINKING, SCIENTIFIC METHODOLOGY

145. SE 500 256
MICCICHE, FRANK; KEANY, MICHAEL
HYPOTHESIS MACHINE
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04 00 69 3
*ATOMIC THEORY, *INSTRUCTIONAL MATERIALS, *SKILL DEVELOPMENT, *SECONDARY SCHOOL SCIENCE, ELEMENTARY SCHOOL SCIENCE, INSTRUCTION, PHYSICAL SCIENCES, SCIENCE ACTIVITIES

146. SE 006 218
MILLER, DOROTHY DODD
THE EFFECT OF AN EXPERIMENTAL APPROACH TO SCIENCE INSTRUCTION ON THE ACHIEVEMENT OF CERTAIN SIXTH GRADE STUDENTS
UNIVERSITY OF ARKANSAS, FAYETTEVILLE
UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
67 69
*ACHIEVEMENT, *ELEMENTARY SCHOOL SCIENCE, DOCTORAL THESES, GRADE 6, *INSTRUCTION, RESEARCH REPORTS, *SCIENCE ACTIVITIES, SCIENCE EQUIPMENT

147. SE 500 118
MILNE, DAVID H.
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*BIOLOGY, *COLLEGE SCIENCE, *POPULATION GROWTH, SCIENCE ACTIVITIES, SECONDARY SCHOOL SCIENCE

148. SE 006 219
MOLOTSKY, LEONARD L.
AN EXPLORATORY STUDY OF COOPERATIVE TEAM TEACHING IN TENTH-GRADE BIOLOGY
UNIVERSITY OF MISSOURI, KANSAS CITY
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66 457
*BIOLOGY, DOCTORAL THESES, GRADE 10, *INSTRUCTION, RESEARCH REPORTS, *SECONDARY SCHOOL SCIENCE, *TEAM TEACHING, TEACHING METHODS

149. SE 006 263
MONTAG, BETTY JO
MICROSCOPE + TV CAMERA
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*DEMONSTRATIONS (EDUCATIONAL), *INSTRUCTIONAL TELEVISION, *INSTRUCTION, *MICROBIOLOGY, *SECONDARY SCHOOL SCIENCE, BIOLOGY, INSTRUCTIONAL MEDIA, MICROSCOPES, SCIENCE ACTIVITIES

150. SE 006 732
MONTAGUE, EARL J.
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*AUTOINSTRUCTIONAL METHODS, *ACHIEVEMENT, *INSTRUCTION, *PHYSICAL SCIENCES, EVALUATION, GRADE 9, INSTRUCTIONAL MATERIALS, TEACHING METHODS, PHYSICS, PIAGET

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MONTAGUE, EARL J.; KORAN, JOHN J.
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*EDUCATIONAL OBJECTIVES, *INSTRUCTION, *INSTRUCTIONAL DESIGN, *OBJECTIVES, *SCIENCE EDUCATION, INSTRUCTIONAL IMPROVEMENT

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*COMPUTER PROGRAMS, *CHEMISTRY, *KINETICS, COLLEGE SCIENCE, SCIENCE ACTIVITIES, UNDERGRADUATE STUDY, 1969

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McBURNEY, WENDELL FARIS
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67 159
*BIOLOGY, DOCTORAL THESES, *EVALUATION, GRADE 10, *INSTRUCTION, RESEARCH REPORTS, *SECONDARY SCHOOL SCIENCE, STUDENT CHARACTERISTICS, TEACHING TECHNIQUES, PROCESSES OF SCIENCE TEST (POST), BIOLOGICAL SCIENCES CURRICULUM STUDY, OTIS INTELLIGENCE TEST

154. SE 006 213
McCURDY, DONALD WILLIAM
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UNIVERSITY OF MISSOURI, COLUMBIA
UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
67 346
BIOLOGY, *CURRICULUM, CHEMISTRY, DOCTORAL THESES, ENROLLMENTS, *INSTRUCTION, PHYSICS, RESEARCH REPORTS, *SECONDARY SCHOOL SCIENCE, STATE SURVEYS, *SCIENCE FACILITIES, *TEACHER CHARACTERISTICS, TEACHING PROCEDURES, TEACHING METHODS, MISSOURI

155. SE 007 138
McKEE, RONALD JAMES
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66 219
*ACHIEVEMENT, *CURRICULUM, *INSTRUCTION, *PHYSICAL SCIENCES, *PROGRAMED INSTRUCTION, *SECONDARY SCHOOL SCIENCE, DOCTORAL THESES, GRADE 9, RESEARCH REPORTS, 1966

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McLEONDON,ALVIN LEE
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UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
ED 027 191 NOT AVAILABLE FROM EDRS
68 191
*COLLEGE SCIENCE, *INSTRUCTION, *INDIVIDUAL INSTRUCTION, *PHYSICS, *PROGRAMED INSTRUCTION, DOCTORAL THESES, GENERAL EDUCATION, SCIENCE ACTIVITIES, UNDERGRADUATE STUDY

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McMILLIN, JOHN G.
ON THE USE OF THREE DIMENSIONAL GRAPHS
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*AUDIOVISUAL AIDS, *BIOLOGY, *GRAPHS, COLLEGE SCIENCE, INSTRUCTION, RESOURCE MATERIALS, SECONDARY SCHOOL SCIENCE

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EDRS
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69 63
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159. SE 007 329
O'CONNOR, ROD
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*COLLEGE SCIENCE, CHEMICAL REACTIONS, *LABORATORY EXPERIMENTS, *ORGANIC CHEMISTRY, RESEARCH TECHNIQUES, *STUDENT INVESTIGATIONS, SEMI MICRO LABORATORY TECHNIQUES, *SCIENCE ACTIVITIES, UNDERGRADUATE STUDY, 1965

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PALMER, RAY ALONZO
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GEORGE PEABODY COLLEGE FOR TEACHERS, NASHVILLE, TENNESSEE
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*BIOLOGY, *CONCEPT FORMATION, *INSTRUCTION, *LEARNING, *SECONDARY SCHOOL SCIENCE, DOCTORAL THESES, RESEARCH REPORTS, SCIENCE COURSE IMPROVEMENT PROJECT, BIOLOGICAL SCIENCES CURRICULUM STUDY

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PARAKH, JAL S.
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162. SE 006 222
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164. SE 500 102
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165. SE 500 241
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166. SE 500 127
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*BIOLOGY, *COGNITIVE PROCESSES, *CONCEPT FORMATION, *ELEMENTARY SCHOOL SCIENCE, CELL THEORY, INSTRUCTION, SCIENTIFIC CONCEPTS, TEACHING PROCEDURES

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170. SE 006 224
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*BIOLOGY, *CLOSED CIRCUIT TELEVISION, *INSTRUCTION, *SECONDARY SCHOOL SCIENCE, *TEAM TEACHING, ACADEMIC ACHIEVEMENT, RESEARCH REPORTS, TELEVISION, METROPOLITAN SCIENCE TEST, COOPERATIVE BIOLOGY TEST, STEP SCIENCE TEST

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177. SE 006 396
RAMSEY, GREGOR A.; HOWE, ROBERT W.
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178. SE 006 480
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66 90
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186. SE 500 378
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188. SE 500 266
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189. SE 500 199
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190. SE 500 175
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03 00 69 3
*ELEMENTARY SCHOOL SCIENCE, *INSTRUCTION, *QUESTIONING TECHNIQUES, CLASSROOM PARTICIPATION, DISCUSSION (TEACHING TECHNIQUE), ELEMENTARY SCHOOL TEACHERS, INSTRUCTIONAL IMPROVEMENT, STUDENT PARTICIPATION

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SHOCKLEY, WILLIAM; AND OTHERS
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SIMMONS, MAITLAND P.
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*INSTRUCTION, *SCIENCE ACTIVITIES, *SOIL SCIENCE, *SECONDARY SCHOOL SCIENCE, *TEACHING TECHNIQUES, BIOLOGICAL SCIENCE, PROBLEM SOLVING, LABORATORY EXPERIMENTS

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SKINNER, RAY
THE EFFECT OF DIFFERENT COMBINATIONS OF TELEVISION PRESENTATIONS AND CLASSROOM TEACHER CONDUCTED INQUIRY SESSIONS ON THE ACHIEVEMENT AND INTEREST IN SCIENCE OF FIFTH GRADERS
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*AUDIOVISUAL AIDS, *ELEMENTARY SCHOOL SCIENCE, *EDUCATIONAL TELEVISION, *INSTRUCTION, *TELEVISED INSTRUCTION, *TEACHING PROCEDURES, ACHIEVEMENT, ACADEMIC ACHIEVEMENT, COMPARATIVE ANALYSIS, DEDUCTIVE METHODS, EARTH SCIENCE, GRADE 5, INSTRUCTIONAL MATERIALS, INDUCTIVE METHODS, INSTRUCTIONAL MEDIA, INQUIRY TRAINING, MOTIVATION, STUDENT SCIENCE INTERESTS, RESEARCH REPORTS, U.S. DEPARTMENT OF HEALTH,EDUCATION AND WELFARE, OFFICE OF EDUCATION, BUREAU OF RESEARCH

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SKINNER, RAY, JR.
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210. SE 006 372
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68 60
*BIOLOGY, *ELEMENTARY SCHOOL SCIENCE, *FIELD TRIPS, *INSTRUCTION, *TEACHING GUIDES, CURRICULUM DEVELOPMENT, EROSION, GRADE 5, NATURAL SCIENCES, SCIENCE ACTIVITIES

215. SE 006 366
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68 70
*CURRICULUM DEVELOPMENT, *ELEMENTARY SCHOOL SCIENCE, *INSTRUCTION, BOTANY, BIOLOGY, EROSION, ENTOMOLOGY, GRADE 6, FIELD TRIPS, NATURAL SCIENCES, NATURE STUDY, SCIENCE ACTIVITIES, TEACHING GUIDES, ZOOLOGY

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SPEARE, EDWARD P.
PHOTO-LAMINATES
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02 00 69 2
*AUDIOVISUAL AIDS, *PHOTOGRAPHS, *MICROBIOLOGY, BIOLOGY, COLLEGE SCIENCE, INSTRUCTION, SECONDARY SCHOOL SCIENCE

217. SE 500 183
ST. JOHN, LEO
AIRPLANES AND FLIGHT
SCIENCE AND CHILDREN
03 00 66 2
*AEROSPACE TECHNOLOGY, *ELEMENTARY SCHOOL SCIENCE, *INSTRUCTION, DISCOVERY LEARNING, SCIENCE ACTIVITIES

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STEERE, NORMAN V.
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*CHEMISTRY, *LABORATORY SAFETY, *SCIENCE LABORATORIES, *SAFETY, COLLEGE CHEMISTRY, INSTRUCTIONAL MATERIALS, LABORATORY EXPERIMENTS, LABORATORY TECHNIQUES, LABORATORY EQUIPMENT, SECONDARY SCHOOL SCIENCE, TEACHING TECHNIQUES

219. SE 500 594
STONEBARGER, CHARLES W.
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*CREATIVE ACTIVITIES, *EDUCATIONAL FACILITIES, *INSTRUCTION, *INDIVIDUALIZED PROGRAMS, *PERMISSIVE ENVIRONMENT, COMMUNITY INVOLVEMENT, TEACHER ROLE, 1969

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STOPPEL, DAVID ARTHUR
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*CURRICULUM DEVELOPMENT, *CHEMISTRY, *COLLEGE SCIENCE, *COMPARATIVE ANALYSES, *INSTRUCTION, ACADEMIC ABILITY, ABILITY GROUPING, DOCTORAL THESES, PROBLEM SOLVING, QUANTITATIVE REASONING, RESEARCH REPORTS, 1965, SCHOOL AND COLLEGE ABILITY TEST, UNIVERSITY OF MINNESOTA

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BOTANY, BIOLOGY, CYTOLOGY, COLLEGE SCIENCE, GENETICS, INSTRUCTION, LABORATORY TECHNIQUES, MICROBIOLOGY, SECONDARY SCHOOL SCIENCE, SCIENCE ACTIVITIES

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STRAYER, JAMES L.
LIVING CRAYFISH IN THE LABORATORY
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03 00 69 3
*BIOLOGY, *INSTRUCTION, *SCIENCE MATERIALS, *SCIENCE ACTIVITIES, BEHAVIOR, SECONDARY SCHOOL SCIENCE, ZOOLOGY

223. SE 500 363
STULL, JOHN L.
LOSSY COLLISIONS: AN AIR TRACK EXPERIMENT
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*INSTRUCTION, *MOTION, *PHYSICAL SCIENCES, *PHYSICS, *SECONDARY SCHOOL SCIENCE, COLLEGE SCIENCE, ENERGY, SCIENCE EXPERIMENTS, TEACHING TECHNIQUES

224. SE 006 496
SWANN, A. HENRY
STATIC ELECTRICITY
SCIENCE AND CHILDREN
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ELECTRICITY, *ELEMENTARY SCHOOL SCIENCE, INSTRUCTION, *PHYSICAL SCIENCES, STATIC ELECTRICITY, *SCIENCE ACTIVITIES

225. SE 006 250
SWEETERS, WILLIAM GEORGE
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COLORADO STATE COLLEGE, GREELEY
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68 137
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*COMPARATIVE ANALYSIS, *DEDUCTIVE METHODS, *INDUCTIVE METHODS, *INSTRUCTION, *SECONDARY SCHOOL SCIENCE, ATTITUDES, DISCOVERY LEARNING, RETENTION, TRANSFER OF TRAINING, 1969

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*DISCOVERY LEARNING, *INDUCTIVE METHODS, *INSTRUCTION, *SECONDARY SCHOOL SCIENCE, ACHIEVEMENT, COMPARATIVE ANALYSIS, DEDUCTIVE METHODS, DOCTORAL THESES, GRADE 9, GENERAL SCIENCE, PHYSICS, RESEARCH REPORTS, DIFFERENTIAL APTITUDE TEST OF MECHANICAL REASONING

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AN ANALYSIS OF THE EFFECTS OF INSTRUCTIONAL METHODS UPON SELECTED OUTCOMES OF INSTRUCTION IN AN INTERDISCIPLINARY SCIENCE UNIT
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ED 028 094 NOT AVAILABLE FROM EDRS
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*ACHIEVEMENT, *EARTH SCIENCE, *INSTRUCTION, *SECONDARY SCHOOL SCIENCE, *TEACHING METHODS, COMPARATIVE ANALYSIS, CRITICAL THINKING, DEDUCTIVE METHODS, DOCTORAL THESES, GENERAL SCIENCE, GRADE 8, INDUCTIVE METHODS, PROBLEM SOLVING, SCIENTIFIC ENTERPRISE, STUDENT CHARACTERISTICS, TEST ON UNDERSTANDING SCIENCE, TAB INVENTORY OF SCIENCE PROCESSES

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07 00 66 9
*COLLEGE SCIENCE, *INTERFERENCE, *INSTRUCTIONAL IMPROVEMENT, *OPTICS, *PHYSICS, *SCIENTIFIC PRINCIPLES, INTERNATIONAL EDUCATION, LIGHT, MODELS (DEMONSTRATION), NEWTON'S RINGS, HAIDINGER'S RINGS, FABRY-PEROT FRINGES, MICHELSON'S CIRCULAR FRINGES, GREAT BRITAIN

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TOROP, WILLIAM
AN EXPERIMENTAL STUDY TO DETERMINE THE RELATIVE EFFECTIVENESS OF FOUR METHODS OF LABORATORY REPORTS IN THE TEACHING OF CHEM STUDY CHEMISTRY
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*CHEMISTRY, *INSTRUCTION, *LABORATORY PROCEDURES, *SECONDARY SCHOOL SCIENCE, *TEACHING PROCEDURES, ACHIEVEMENT, COMPARATIVE ANALYSIS, DOCTORAL THESES, GRADE 11, GRADE 12, RESEARCH REPORTS, SCIENCE COURSE IMPROVEMENT PROJECT, CHEMICAL EDUCATION MATERIALS STUDY, WATSON GLASER CRITICAL THINKING APPRAISAL, TEST ON UNDERSTANDING SCIENCE

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TRINKLEIN, LLOYD ARTHUR
A COMPARATIVE STUDY OF THE EFFECTIVENESS OF USING A FULL FILM AND SHORT FORMAT FILMS TO TEACH CHEMISTRY
MICHIGAN STATE UNIVERSITY, EAST LANSING
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66 140
*CHEMISTRY, *FILMS, *INSTRUCTIONAL MATERIALS, *INSTRUCTION, *SECONDARY SCHOOL SCIENCE, COMPARATIVE ANALYSIS, DOCTORAL THESES, RESEARCH REPORTS, CHEMICAL EDUCATION MATERIALS STUDY

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TURNER, A. MASON
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*ACIDS, BASES, *CHEMISTRY, *INSTRUCTION, LABORATORY EXPERIMENTS, SCIENCE ACTIVITIES, *SECONDARY SCHOOL SCIENCE

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VICTOR, LAURENCE J.
SYSTEMS - AN ORGANIZING PRINCIPLE FOR SCIENCE CURRICULA
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02 00 69 4
*CURRICULUM DEVELOPMENT, *ELEMENTARY SCHOOL SCIENCE, *INSTRUCTION, *SCIENTIFIC CONCEPTS, *SYSTEMS CONCEPTS, CURRICULUM PLANNING, MODELS, PHYSICAL SCIENCES, MINNESOTA MATHEMATICS AND SCIENCE TEACHING PROJECT

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SCIENTIFIC LITERACY AND THE SOCIALLY DISADVANTAGED YOUTH--A LABORATORY DEMONSTRATION PROJECT
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67 123
*CONCEPT TEACHING, *CHEMISTRY, COGNITIVE DEVELOPMENT, *CONCEPT FORMATION, ELEMENTARY SCHOOL SCIENCE, *INSTRUCTION, *LEARNING, *RESEARCH REPORT, *TEACHING TECHNIQUES

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PHYSICS EDUCATION
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64 189
*ACADEMIC ACHIEVEMENT, CONVENTIONAL INSTRUCTION, CHEMISTRY, CHEMICAL EQUILIBRIUM, COMPARATIVE ANALYSIS, DOCTORAL THESES, INSTRUCTIONAL MATERIALS, MATHEMATICS, *INSTRUCTION, *PROGRAMED MATERIALS, PROGRAMED INSTRUCTION, RESEARCH REPORTS, RACIAL DIFFERENCES, *SECONDARY SCHOOL SCIENCE, SEX DIFFERENCES, ATLANTA, OTIS QUICK SCORING TEST OF MENTAL ABILITY, SCHOOL AND COLLEGE ABILITY TEST, 1964, GEORGIA

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JOURNAL OF EXPERIMENTAL EDUCATION
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WELLIVER, PAUL W.
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WELSER, JOHN R.
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WHITFORD, P. B.
A SIMPLE MOISTURE-GRADIENT EXPERIMENT
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WILHM, JERRY L.
PATTERNS OF NUMERICAL ABUNDANCE OF ANIMAL POPULATIONS
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WILLIAMS, HOMER RONALD
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UNIVERSITY OF GEORGIA, ATHENS
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66 136
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THE "NEW" SCIENCE TEACHERS ARE ASKING MORE AND BETTER QUESTIONS
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SCHOOL SCIENCE AND MATHEMATICS
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*BIOLOGY, *INSTRUCTION, *SECONDARY SCHOOL SCIENCE, *SCIENCE EXPERIMENTS, BIOCHEMISTRY, COLLEGE SCIENCE, LABORATORY EXPERIMENTS

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WOODBURN, JOHN H.
HYPOTHESES--CROSSROADS TO SUCCESS VERSUS FAILURE IN SCIENCE AND SCIENCE TEACHING
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*HYPOTHESIS TESTING, *INSTRUCTION, *INQUIRY TRAINING, *SKILL DEVELOPMENT, *SECONDARY SCHOOL SCIENCE, BIOLOGY

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WOODWARD, ELIZABETH SCUDDER
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FLORIDA STATE UNIVERSITY, TALLAHASSEE
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ED 028 084 NOT AVAILABLE FROM EDRS
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*BIOLOGY, *COGNITIVE DEVELOPMENT, *INSTRUCTION, *SECONDARY SCHOOL SCIENCE, COGNITIVE PROCESSES, COMPARATIVE ANALYSIS, DOCTORAL THESES, RESEARCH REPORTS, SCIENCE COURSE IMPROVEMENT PROJECT, BIOLOGICAL SCIENCES CURRICULUM STUDY, KIT OF REFERENCE TESTS FOR COGNITIVE FACTORS, FLORIDA

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WRIGHT, ROBERT W.
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*EMBRYOLOGY, *SEX EDUCATION, *SCIENCE ACTIVITIES, *ZOOLOGY, BIOLOGY, COLLEGE SCIENCE, SCIENCE MATERIALS, SECONDARY SCHOOL SCIENCE, SAND DOLLARS

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YAGER, ROBERT E.; AND OTHERS
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YARGER, RICHARD D.; CRANSON, K. R.
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YEE, GILBERT C.
THE OWL PELLET
SCIENCE AND CHILDREN
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*ANATOMY, *ELEMENTARY SCHOOL SCIENCE, *SCIENCE ACTIVITIES, *ZOOLOGY, BIOLOGY, SKILL DEVELOPMENT

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FLORISSANT VALLEY COMMUNITY COLLEGE, FERGUSON, MISSOURI
EDRS
ED 031 415 MF $0.50 HC $5.80
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AUDIOVISUAL AIDS, *CURRICULUM DEVELOPMENT, COMMUNITY COLLEGE, *COLLEGE SCIENCE, EVALUATION, INSTRUCTIONAL MATERIALS, *INSTRUCTION, *PHYSICS, *TECHNICAL EDUCATION, FLORISSANT VALLEY COMMUNITY COLLEGE, FERGUSON, MISSOURI

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UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
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*BIOLOGICAL SCIENCES, *INSTRUCTION, *PROGRAMED INSTRUCTION, *SECONDARY SCHOOL SCIENCE, *TEACHING METHODS, DOCTORAL THESES, GENETICS, ATLANTIC PUBLIC SCHOOLS,

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ZAJICEK, O. T.
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COMPARISON OF TEACHING OUTCOMES BETWEEN TWO TEACHERS OF SECONDARY BIOLOGY
THE AMERICAN BIOLOGY TEACHER
12 00 68 4
ATTITUDES, *ACHIEVEMENT, *BIOLOGY, GRADE 8, *INSTRUCTION, PILOT PROJECTS, PROJECT REPORTS, STUDENT CHARACTERISTICS, *SECONDARY SCHOOL SCIENCE, TEACHER BEHAVIOR, *TEACHER CHARACTERISTICS, BIOLOGICAL SCIENCES CURRICULUM STUDY (BLUE VERSION), WATSON-GLASER CRITICAL THINKING APPRAISAL, TEST ON UNDERSTANDING SCIENCE, NELSON BIOLOGY TEST, SILANCE SCALE FOR MEASURING ATTITUDE TOWARD ANY SCHOOL SUBJECT

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ED 027 180 MF $0.25 HC $0.60
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270. SE 007 178
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*BIBLIOGRAPHIES, *COLLEGE SCIENCE, *INSTRUCTIONAL MATERIALS, *PHYSICS, *PROGRAMED INSTRUCTION, PROGRAMED MATERIALS

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*INSTRUCTION, *PHYSICS, *SECONDARY SCHOOL SCIENCE, *TEACHING PROCEDURES, AUDIOVISUAL AIDS

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1. SE 007 376
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*ACADEMIC ACHIEVEMENT, *ARITHMETIC, FACTOR ANALYSIS, GRADE 7, *LEARNING, PROBLEM SOLVING, *SEX DIFFERENCES, *SECONDARY SCHOOL MATHEMATICS, STUDENT CHARACTERISTICS, TEACHING METHODS, ARITHMETIC REASONING TEST

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BASSLER, OTTO C.
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*FLEXIBLE SCHEDULING, GRADE 9, GRADE 10, *INSTRUCTION, LARGE GROUP INSTRUCTION, LEARNING, PLANE GEOMETRY, RESEARCH REPORTS, *SECONDARY SCHOOL MATHEMATICS

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COPPOLA, JEAN N.
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*ADDITION, *INSTRUCTION, *MULTIPLICATION, *SECONDARY SCHOOL MATHEMATICS, *WHOLE NUMBERS, MATHEMATICS, MATHEMATICAL MODELS, NUMBER CONCEPTS, TEACHING PROCEDURES

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DILLEY,CLYDE A.; RUCKER, WALTER E.
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*DIVISION, *ELEMENTARY SCHOOL MATHEMATICS, *INSTRUCTION, ARITHMETIC, NUMBER CONCEPTS

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FARRELL, MARGARET A.
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FEJFAR, JAMES L.
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FRANK, CHARLOTTE
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FRIEDMAN, BERNARD
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GARFUNKEL, J.
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GARNER, R. C.
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38. SE 500 232
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*DISCOVERY LEARNING, *ELEMENTARY SCHOOL MATHEMATICS, *INSTRUCTION, *MATHEMATICS, *WHOLE NUMBERS, ARITHMETIC, NUMBER CONCEPTS

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GRAVEL, HECTOR
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GREABELL, LEON
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GURAU, PETER K.
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HATCH, MARY JACQUELINE
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69 173
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HEARD, IDA MAE
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HENDERSON, GEORGE L.
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46. SE 500 305
HENRY, BOYD
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HOLDAN, GREGORY
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*ELEMENTARY SCHOOL MATHEMATICS, *NUMBER CONCEPTS, *TEACHING PROCEDURES, ARITHMETIC, WHOLE NUMBERS

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HOLDER, LOIS D.
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HUNT, EARL B.; AND OTHERS
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SOUTHWEST REGIONAL LABORATORY, INGLEWOOD, CALIFORNIA
ON LOAN FROM ERIC CENTER, 1460 WEST LANE AVENUE, COLUMBUS, OHIO
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ALGEBRA, COMPUTERS, *COMPUTER ORIENTED PROGRAMS, *MATHEMATICS EDUCATION, LOGIC, *MATHEMATICS, *PROBLEM SOLVING

52. SE 500 216
IKEDA, HITOSHI; ANDO, MASUE
INTRODUCTION TO THE NUMERATION OF TWO-PLACE NUMBERS
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04 00 69 3
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JACOBSON, RUTH S.
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*ARITHMETIC, *ELEMENTARY SCHOOL MATHEMATICS, *PROBLEM SOLVING, *SPECIAL EDUCATION, GRADE 4, TEACHING TECHNIQUES

54. SE 500 098
JEFFRYES, JAMES
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THE MATHEMATICS TEACHER
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57. SE 500 307
JUNGE, CHARLOTTE W.
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58. SE 500 231
KAMINS, MARTIN P.
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59. SE 500 211
KIEREN, THOMAS E.
QUADRATIC EQUATIONS -- COMPUTER STYLE
THE MATHEMATICS TEACHER
04 00 69 5
*ALGEBRA, *COMPUTER ORIENTED PROGRAMS, *INSTRUCTION, *MATHEMATICS, *TEACHING PROCEDURES, SECONDARY SCHOOL SCIENCE

60. SE 500 283
KING, ROBERT W.
USING PROGRAMMED INSTRUCTION TO INVESTIGATE THE EFFECTS OF GROUP INTERACTION ON LEARNING MATHEMATICS
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05 00 69 6
*ACHIEVEMENT, *INSTRUCTION, *MATHEMATICS, *PROGRAMED INSTRUCTION, *SECONDARY SCHOOL MATHEMATICS, COMPARATIVE ANALYSIS

61. SE 006 273
LACKNER, LOIS M.
THE TEACHING OF TWO CONCEPTS IN BEGINNING CALCULUS BY COMBINATIONS OF INDUCTIVE AND DEDUCTIVE APPROACHES, FINAL REPORT
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EDRS
ED 025 446 MF $1.50 HC $18.25
06 00 68 363
*CALCULUS, *INSTRUCTION, *MATHEMATICS, *PROGRAMED INSTRUCTION, *SECONDARY SCHOOL MATHEMATICS, COMPARATIVE ANALYSIS, GRADE 11, GRADE 12, TEACHING PROCEDURES

62. SE 500 062
LaFRENZ, DALE E.; KIEREN, THOMAS E.
COMPUTERS FOR ALL STUDENTS, A NEW PHILOSOPHY OF COMPUTER USE
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01 00 69 3
*COMPUTER ASSISTED INSTRUCTION, *INSTRUCTION, *MATHEMATICS, *SECONDARY SCHOOL MATHEMATICS, COMPUTER ORIENTED PROGRAMS, TEACHING PROCEDURES

63. SE 006 514
LEVIN, ALVIN IRVING
THE USE OF TAXONOMIC PROGRAMMING AS APPLIED TO THE TEACHING OF FRACTIONS IN GRADE FIVE
UNIVERSITY OF CALIFORNIA, LOS ANGELES
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ED 028 935 NOT AVAILABLE FROM EDRS
68 185
*ELEMENTARY SCHOOL MATHEMATICS, *FRACTIONS, *INSTRUCTION, *INSTRUCTIONAL MATERIALS, *PROGRAMED INSTRUCTION, ARITHMETIC, ACHIEVEMENT TESTS, BEHAVIORAL OBJECTIVES, COMPARATIVE ANALYSIS, GRADE 5, TESTS, DOCTORAL THESES, THE TAXONOMIC SKILLS ACHIEVEMENT TEST IN FRACTIONS

64. SE 007 206
LOMAN, EARLE
INEQUALITIES AND REAL NUMBERS AS A BASIS FOR SCHOOL MATHEMATICS, CAMBRIDGE CONFERENCE ON SCHOOL MATHEMATICS FEASIBILITY STUDY NUMBER 38
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EDRS
ED 033 845 MF $0.50 HC NOT AVAILABLE FROM EDRS
69 86
ARITHMETIC, *ELEMENTARY SCHOOL MATHEMATICS, GRADE 1, GRADE 2, *INSTRUCTION, *INSTRUCTIONAL MATERIALS, MATHEMATICAL CONCEPTS, RESOURCE MATERIALS

65. SE 007 210
LOMAN, EARLE
PROGRESS REPORT FOR MARCH, 1964, CAMBRIDGE CONFERENCE ON SCHOOL MATHEMATICS FEASIBILITY STUDY NUMBER 33
CAMBRIDGE CONFERENCE ON SCHOOL MATHEMATICS, NEWTON, MASSACHUSETTS
EDRS
ED 033 032 MF $0.25 HC NOT AVAILABLE FROM EDRS
69 29
*CURRICULUM DEVELOPMENT, *ELEMENTARY SCHOOL MATHEMATICS, *INSTRUCTION, MATHEMATICS EDUCATION, *PROGRAM DESCRIPTIONS, *REPORTS, CAMBRIDGE CONFERENCE ON SCHOOL MATHEMATICS

66. SE 006 512
LOMBARD, AVIMA DUSHKIN
EFFECTIVENESS OF INSTRUCTION IN PUZZLE ASSEMBLY SKILLS WITH PRESCHOOL CHILDREN
UNIVERSITY OF CALIFORNIA, LOS ANGELES
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68 159
*ELEMENTARY SCHOOL MATHEMATICS, *INSTRUCTION, *PROGRAMED INSTRUCTION, *PUZZLES, DOCTORAL THESIS, EDUCATIONAL GAMES, PRESCHOOL EDUCATION, VERBAL DEVELOPMENT

67. SE 500 309
MAERTENS, NORBERT
AN ANALYSIS OF THE EFFECTS OF ARITHMETIC HOMEWORK UPON THE ARITHMETIC ACHIEVEMENT OF THIRD-GRADE PUPILS
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05 00 69 7
*ARITHMETIC, *ACHIEVEMENT, *ELEMENTARY SCHOOL MATHEMATICS, *HOMEWORK, GRADE 3, *INSTRUCTION, COMPARATIVE ANALYSIS, LEARNING, MATHEMATICS, PROBLEM SOLVING

68. SE 500 301
MAUTHE, ALBERT H.
CLIMB THE LADDER
THE ARITHMETIC TEACHER
05 00 69 3
*ADDITION, *ELEMENTARY SCHOOL MATHEMATICS, *INSTRUCTION, *NUMBER CONCEPTS, *WHOLE NUMBERS, ARITHMETIC, MATHEMATICAL CONCEPTS, TEACHING PROCEDURES

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MECONI, L. J.
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67 7
*ALGEBRA, *CONCEPT FORMATION, COMPARATIVE ANALYSIS, *DISCOVERY PROCESSES, GRADE 8, GRADE 9, *INSTRUCTION, *LEARNING, PROGRAMED MATERIALS, *SECONDARY SCHOOL MATHEMATICS, RESEARCH REPORTS

70. SE 500 302
MEHL, WILLIAM G.; MEHL, DAVID W.
GRISLY GRIDS
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05 00 69 3
*ARITHMETIC, *AUDIOVISUAL AIDS, *INSTRUCTION, *MULTIPLICATION, *WHOLE NUMBERS, ELEMENTARY SCHOOL MATHEMATICS, INSTRUCTIONAL MATERIALS, MATHEMATICAL CONCEPTS, NUMBER CONCEPTS, TEACHING PROCEDURES

71. SE 500 161
MILGRAM, JOEL
TIME UTILIZATION IN ARITHMETIC TEACHING
THE ARITHMETIC TEACHER
03 00 69 3
*ELEMENTARY SCHOOL TEACHERS, *ELEMENTARY SCHOOL MATHEMATICS, *INSTRUCTION, *TEACHING, *TIME FACTORS (LEARNING), ARITHMETIC

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MILLER, WILLIAM A.
A UNIT IN SENTENTIAL LOGIC FOR JUNIOR HIGH SCHOOL STUDENTS; INVOLVING BOTH VALID AND INVALID INFERENCE PATTERNS
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*INSTRUCTION, *LOGIC, *SECONDARY SCHOOL MATHEMATICS, ABSTRACT REASONING, GRADE 7, LOGICAL THINKING, MATHEMATICS

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MILNE, ESTHER
DISGUISED PRACTICE FOR MULTIPLICATION AND ADDITION OF DIRECTED NUMBERS
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05 00 69 2
*ADDITION, *ELEMENTARY SCHOOL MATHEMATICS, *INSTRUCTION, *MULTIPLICATION, *WHOLE NUMBERS, ARITHMETIC, AUDIOVISUAL AIDS, NUMBER CONCEPTS, TEACHING TECHNIQUES

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*AUDIOVISUAL AIDS, *ELEMENTARY SCHOOL MATHEMATICS, *INSTRUCTION, *SUBTRACTION, ARITHMETIC

75. SE 006 511
MOODY, WILLIAM BRAUN
AN INVESTIGATION OF THE RELATIONSHIP BETWEEN FIFTH-GRADE STUDENT AND TEACHER PERFORMANCE ON SELECTED TASKS INVOLVING NONMETRIC GEOMETRY
UNIVERSITY OF MARYLAND, COLLEGE PARK
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ED 028 933 NOT AVAILABLE FROM EDRS
68 149
*ACHIEVEMENT, *ELEMENTARY SCHOOL MATHEMATICS, *EFFECTIVE TEACHING, *INSTRUCTION, *TEACHER EDUCATION, ELEMENTARY SCHOOL TEACHERS, GRADE 5, GEOMETRY, MATHEMATICS

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MORECZ, JUDY
INEQUALITY LESSONS AT ADAMS SCHOOL, CAMBRIDGE CONFERENCE ON SCHOOL MATTEMATICS FEASIBILITY STUDY NUMBER 42
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EDRS
ED 033 027 MF $0.50 HC NOT AVAILABLE FROM EDRS
69 69
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McCREERY, LOUIS R.
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05 00 69 4
*ALGEBRA, *INSTRUCTION, *MATHEMATICS, *MATHEMATICAL CONCEPTS, *SECONDARY SCHOOL MATHEMATICS, MATHEMATICAL APPLICATIONS, TEACHING PROCEDURES

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McDERMOTT, JOHN J.
SAMPLE "COMPUTER"
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*COMPUTER ORIENTED PROGRAMS, *ELEMENTARY SCHOOL MATHEMATICS, *INSTRUCTION, *PROBLEM SOLVING, GRADE 6, GRADE 7, NUMBER CONCEPTS

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McLANE, LYN
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EDRS
ED 033 028 MF $0.25 HC NOT AVAILABLE FROM EDRS
69 28
ARITHMETIC, CURRICULUM DEVELOPMENT, *ELEMENTARY SCHOOL MATHEMATICS, *GEOMETRIC CONCEPTS, *INSTRUCTION, INSTRUCTIONAL MATERIALS, MATHEMATICAL CONCEPTS, *SYMMETRY

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McLANE, LYN
PROBABILITY LESSONS AT HANCOCK SCHOOL, CAMBRIDGE CONFERENCE ON SCHOOL MATHEMATICS FEASIBILITY STUDY NUMBER 41
CAMBRIDGE CONFERENCE ON SCHOOL MATHEMATICS, NEWTON, MASSACHUSETTS
EDRS
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69 74
ARITHMETIC, *ELEMENTARY SCHOOL MATHEMATICS, GRADE 4, GRADE 5, GRADE 6, *INSTRUCTION, INSTRUCTIONAL MATERIALS, *PROBABILITY, RESOURCE MATERIALS, CAMBRIDGE CONFERENCE ON SCHOOL MATHEMATICS

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McLEAN, ROBERT C.
ESTIMATING QUOTIENTS FOR THE NEW LONG DIVISION ALGORITHM
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05 00 69 3
*DIVISION, *ELEMENTARY SCHOOL MATHEMATICS, *INSTRUCTION, *WHOLE NUMBERS, ARITHMETIC, NUMBER CONCEPTS, TEACHING PROCEDURES

82. SE 500 082
NELSEN, JEANNE
PERCENT - A RATIONAL NUMBER OR A RATIO
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02 00 69 5
*ARITHMETIC, *ELEMENTARY SCHOOL MATHEMATICS, *PERCENTAGE, *TEACHING PROCEDURES

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66 318
*ALGEBRA, *INSTRUCTION, *MATHEMATICS, *SECONDARY SCHOOL MATHEMATICS, *TEACHING GUIDES, CURRICULUM, GEOMETRY, GRADE 9, MATHEMATICAL CONCEPTS, NUMBER CONCEPTS, BOARD OF EDUCATION, NEW YORK CITY, NEW YORK

84. SE 006 220
NIETLING, LLOYD CHARLES
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68 172
*COLLEGE MATHEMATICS, *INSTRUCTION, *MATHEMATICS, *PROBLEM SOLVING, *TEACHING TECHNIQUES, ALGEBRA, COMPARATIVE ANALYSIS

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NODDINGS, NELLIE L.
PROVIDING FOR INDIVIDUAL RATES OF LEARNING IN MATHEMATICS
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86. SE 004 867
O'BRIEN, THOMAS C.
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NEW YORK UNIVERSITY, NEW YORK
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ED 028 060 NOT AVAILABLE FROM EDRS
67 142
*ARITHMETIC, *ACHIEVEMENT, *DECIMAL FRACTIONS, *ELEMENTARY SCHOOL MATHEMATICS, *INSTRUCTION, *MATHEMATICS, DOCTORAL THESES, EXPERIMENTAL TEACHING, GRADE 6, LEARNING, TEACHING PROCEDURES, 1967

87. SE 006 395
PACE, ANGELA
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88. SE 500 091
PARKER, ROBERT
GRAPH PAPER - A VERSATILE VISUAL AID
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89. SE 006 797
PETHTEL, RICHARD D.
CLOSED-CIRCUIT TELEVISION INSTRUCTION IN COLLEGE MATHEMATICS
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05 00 68 5
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90. SE 006 225
PHILLIPS, PAUL HAROLD
A COMPARATIVE STUDY OF THE EFFECTIVENESS OF TWO METHODS OF TEACHING ELEMENTARY MATHEMATICAL PROOFS
OHIO STATE UNIVERSITY, COLUMBUS
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ED 027 206 NOT AVAILABLE FROM EDRS
68 187
*COLLEGE MATHEMATICS, *INSTRUCTION, *MATHEMATICS, *TEACHING PROCEDURES, COMPARATIVE ANALYSIS, TEACHING METHODS, UNDERGRADUATE STUDY

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PICARD, ANTHONY J.
PIAGET'S THEORY OF DEVELOPMENT WITH IMPLICATIONS FOR TEACHING ELEMENTARY SCHOOL MATHEMATICS
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04 00 69 6
*COGNITIVE DEVELOPMENT, *ELEMENTARY SCHOOL MATHEMATICS, *INSTRUCTION, *LEARNING THEORIES, *MATHEMATICS EDUCATION, PIAGET

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PINCUS, MORRIS
ADDITION AND SUBTRACTION FRACTION ALGORISMS
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*ADDITION, *ELEMENTARY SCHOOL MATHEMATICS, *FRACTIONS, *INSTRUCTION, *SUBTRACTION, ARITHMETIC, MATHEMATICAL CONCEPTS, MATHEMATICS

93. SE 500 210
POINCARE, HENRI
MATHEMATICAL DEFINITIONS AND TEACHING
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04 00 69 10
*EDUCATIONAL OBJECTIVES, *INSTRUCTION, *MATHEMATICS EDUCATION, ARITHMETIC, GEOMETRY, MECHANICS (PROCESS)

94. SE 004 870
POST, THOMAS ROBERT
THE EFFECTS OF THE PRESENTATION OF A STRUCTURE OF THE PROBLEM-SOLVING PROCESS UPON PROBLEM-SOLVING ABILITY IN SEVENTH GRADE MATHEMATICS
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UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
ED 028 061 NOT AVAILABLE FROM EDRS
67 204
*ACHIEVEMENT, *INSTRUCTION, *MATHEMATICS, *PROBLEM SOLVING, *SECONDARY SCHOOL MATHEMATICS, DOCTORAL THESES, GRADE 7, LEARNING, TEACHING PROCEDURES, 1967

95. SE 500 004
POTTENGER, MARY JO; LETH, LEONARD
PROBLEM SOLVING
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01 00 69 4
*ARITHMETIC, *ELEMENTARY SCHOOL MATHEMATICS, *INSTRUCTION, *PROBLEM SOLVING, MATHEMATICS, TEACHING TECHNIQUES

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PRIBNOW, JACK R.
WHY JOHNNY CAN'T "READ" WORD PROBLEMS
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10 00 69 8
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PRICE, JACK
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98. SE 500 083
PRICE, JACK
WHY TEACH DIVISION OF COMMON FRACTIONS?
THE ARITHMETIC TEACHER
02 00 69 3
*DIVISION, *FRACTIONS, *ELEMENTARY SCHOOL MATHEMATICS, *INSTRUCTION, ARITHMETIC, EDUCATIONAL PROBLEMS, MATHEMATICS

99. SE 006 747
RABATA, CAROLYN; McCARTHY, SHIRLEY
HOMOGENEOUS GROUPING IN MATHEMATICS, GRADE 3
JACKSON SCHOOL, MANITOWOC, WISCONSIN
66 4
*ELEMENTARY SCHOOL MATHEMATICS, *HOMOGENEOUS GROUPING, *INSTRUCTION, ARITHMETIC, ACHIEVEMENT TESTS, COMPARATIVE ANALYSIS, GRADE 3, MATHEMATICS, RESEARCH REPORTS, TEACHING PROCEDURES

100. SE 006 787
RETZER, KENNETH A.; HENDERSON, KENNETH B.
EFFECT OF TEACHING CONCEPTS OF LOGIC ON VERBALIZATION OF DISCOVERED MATHEMATICAL GENERALIZATIONS
THE MATHEMATICS TEACHER
11 00 67 4
ABILITY, ALGEBRA, COLLEGE BOUND STUDENTS, COMPARATIVE ANALYSIS, *DISCOVERY PROCESSES, GRADE 7, GRADE 8, *INSTRUCTION, LOGIC, *MATHEMATICAL LOGIC, PROGRAMED INSTRUCTION, RESEARCH REPORTS, *SECONDARY SCHOOL MATHEMATICS, TEACHING PROCEDURES, VERBAL COMMUNICATION

101. SE 006 657
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EDRS
ED 029 790 MF $0.50 HC $5.45
04 00 69 107
ACHIEVEMENT, CURRICULUM, *ELEMENTARY SCHOOL MATHEMATICS, *INSTRUCTION, LEARNING, *MATHEMATICS EDUCATION, MATHEMATICS, MATHEMATICS TEACHERS, *RESEARCH REVIEWS (PUBLICATIONS), *SECONDARY SCHOOL MATHEMATICS

102. SE 500 234
SANDERS, WALTER J.
EQUIVALENCE AND EQUALITY
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04 00 69 6
*ELEMENTARY SCHOOL MATHEMATICS, *INSTRUCTION, *NUMBER CONCEPTS, ARITHMETIC, MATHEMATICS, PROBLEM SOLVING

103. SE 500 316
SCHLOFF, CHARLES E.
A PICTURED APPROACH TO AN IDEA FOR DIVISION
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05 00 69 2
*DIVISION, *ELEMENTARY SCHOOL MATHEMATICS, *INSTRUCTION, *WHOLE NUMBERS, ARITHMETIC, LEARNING PROCESSES, PROBLEM SOLVING, TEACHING PROCEDURES

104. SE 500 456
SCHRANK, WILBURN R.
ACADEMIC STIMULATION OF MATHEMATICS PUPILS FROM THEIR CLASSROOM ASSOCIATION WITH BRIGHTER PUPILS
THE MATHEMATICS TEACHER
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*ACADEMIC ACHIEVEMENT, *ABILITY GROUPING, *COLLEGE MATHEMATICS, *EDUCATIONAL RESEARCH, *INSTRUCTION, HIGH ACHIEVERS, LOW ABILITY STUDENTS, U.S. AIR FORCE ACADEMY

105. SE 006 249
SHAW, CARL NEIL
EFFECTS OF THREE INSTRUCTIONAL STRATEGIES ON ACHIEVEMENT IN A REMEDIAL ARITHMETIC PROGRAM
FLORIDA STATE UNIVERSITY, TALLAHASSEE
UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
ED 028 928 NOT AVAILABLE FROM EDRS
68 95
*ARITHMETIC, *INSTRUCTION, *REMEDIAL ARITHMETIC, *SECONDARY SCHOOL MATHEMATICS, ACHIEVEMENT, ADDITION, COMPARATIVE ANALYSIS, COMPUTER ASSISTED INSTRUCTION, DOCTORAL THESES, LOW ABILITY STUDENTS, SUBTRACTION

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SHEEHAN, T. JOSEPH
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JOURNAL OF EXPERIMENTAL EDUCATION
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*ALGEBRA, COMPARATIVE ANALYSIS, GRADE 9, *INSTRUCTION, *LEARNING, MATHEMATICS, *MENTAL DEVELOPMENT, PROBLEM SOLVING, RESEARCH REPORTS, *SEX DIFFERENCES, *SECONDARY SCHOOL MATHEMATICS, SURVEY OF ALGEBRAIC APTITUDE

107. SE 500 303
SHERZER, LAURENCE
ADDING INTEGERS USING ONLY THE CONCEPTS OF ONE-TO-ONE CORRESPONDENCE AND COUNTING
THE ARITHMETIC TEACHER
05 00 69 3
*ARITHMETIC, *ADDITION, *ELEMENTARY SCHOOL MATHEMATICS, *INSTRUCTION, *TEACHING PROCEDURES, MATHEMATICAL CONCEPTS, NUMBER CONCEPTS, WHOLE NUMBERS

108. SE 500 207
SIMON, JULIAN L.; HOLMES, ALLEN
A NEW WAY TO TEACH PROBABILITY STATISTICS
THE MATHEMATICS TEACHER
04 00 69 6
*INSTRUCTION, *MATHEMATICS, *PROBABILITY THEORY, *STATISTICS, *SECONDARY SCHOOL MATHEMATICS, TEACHING PROCEDURES

109. SE 500 003
SIMS, JACQUELINE
IMPROVING PROBLEM-SOLVING SKILLS
THE ARITHMETIC TEACHER
01 00 69 3
*ARITHMETIC, *ELEMENTARY SCHOOL MATHEMATICS, *LEARNING ACTIVITIES, *PROBLEM SOLVING, LEARNING MATHEMATICS

110. SE 006 507
ST. CLAIR, IRENE ZERCHER
A STUDY OF THE DEVELOPMENT OF THE CONCEPT OF SYMMETRY BY ELEMENTARY SCHOOL CHILDREN
UNIVERSITY OF TEXAS, AUSTIN
UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
68 259
*CONCEPT FORMATION, *ELEMENTARY SCHOOL MATHEMATICS, *INSTRUCTION, *LEARNING, *SYMMETRY, ACHIEVEMENT, GRADE 4, GRADE 6, DOCTORAL THESIS

111. SE 500 230
STERN, JANE L.
COUNTING: NEW ROAD TO MULTIPLICATION
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*DISCOVERY LEARNING, *ELEMENTARY SCHOOL MATHEMATICS, *INSTRUCTION, *MULTIPLICATION, *WHOLE NUMBERS, ARITHMETIC, NUMBER CONCEPTS

112. SE 007 204
STOLZENBERG, GABRIEL
GEOMETRY REPORT, CAMBRIDGE CONFERENCE ON SCHOOL MATHEMATICS FEASIBILITY STUDY NUMBER 39
CAMBRIDGE CONFERENCE ON SCHOOL MATHEMATICS, NEWTON, MASSACHUSETTS
EDRS
ED 033 029 MF $0.25 HC NOT AVAILABLE FROM EDRS
69 52
ARITHMETIC, *ELEMENTARY SCHOOL MATHEMATICS, GRADE 7, *GEOMETRIC CONCEPTS, *INSTRUCTION, *NUMBER CONCEPTS, *SECONDARY SCHOOL MATHEMATICS, CAMBRIDGE CONFERENCE ON SCHOOL MATHEMATICS

113. SE 500 006
SULLIVAN, JOHN J.
PROBLEM SOLVING USING THE SPHERE
THE ARITHMETIC TEACHER
01 00 69 4
*ELEMENTARY SCHOOL MATHEMATICS, *GEOMETRY, *MAP SKILLS, *PROBLEM SOLVING, INSTRUCTION, TEACHING TECHNIQUES

114. SE 006 818
SUPPES, PATRICK; AND OTHERS
PROBLEM-SOLVING ON A COMPUTER-BASED TELETYPE
STANFORD UNIVERSITY, CALIFORNIA, INSTITUTE FOR MATHEMATICAL STUDIES
EDRS
ED 029 795 MF $0.25 HC $1.40
03 00 69 26
ARITHMETIC, *COMPUTER ASSISTED INSTRUCTION, *ELEMENTARY SCHOOL MATHEMATICS, GRADE 4, GRADE 5, GRADE 6, *INSTRUCTION, MATHEMATICS EDUCATION, *PROBLEM SOLVING, PREDICTION

115. SE 500 153
SUYDAM, MARILYN N.
TEACHERS, PUPILS, AND COMPUTER-ASSISTED INSTRUCTION
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*COMPUTER ASSISTED INSTRUCTION, *COMPUTER ORIENTED PROGRAMS, *ELEMENTARY SCHOOL MATHEMATICS, *INSTRUCTION

116. SE 500 840
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*ANNOTATED BIBLIOGRAPHIES, *CURRICULUM DEVELOPMENT, *ELEMENTARY SCHOOL MATHEMATICS, *MATHEMATICS EDUCATION, *RESEARCH, BIBLIOGRAPHIES

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SVEC, M. MELVINA
THE COMING HUNDREDWEIGHT UNIT
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06 00 69 5
*ELEMENTARY SCHOOL MATHEMATICS, *INSTRUCTION, *MATHEMATICS, *MEASUREMENT, SECONDARY SCHOOL MATHEMATICS

118. SE 500 084
SWART, WILLIAM L.
SECRET NUMBER SENTENCE
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02 00 69 2
*ELEMENTARY SCHOOL MATHEMATICS, *FUNDAMENTAL CONCEPTS, *INSTRUCTION, *NUMBER CONCEPTS, ARITHMETIC, MATHEMATICAL CONCEPTS, MATHEMATICS

119. SE 500 155
THOMPSON, GERALD A.
COMPUTERS AND THE USE OF BASE TWO IN THE MEMORY UNIT
THE ARITHMETIC TEACHER
03 00 69 3
*COMPUTERS, *ELEMENTARY SCHOOL MATHEMATICS, *INSTRUCTION, *NUMBER SYSTEMS, GRADE 6, MODELS

120. SE 006 501
TONEY, JO ANNE STALEY
THE EFFECTIVENESS OF INDIVIDUAL MANIPULATION OF INSTRUCTIONAL MATERIALS AS COMPARED TO A TEACHER DEMONSTRATION IN DEVELOPING UNDERSTANDING IN MATHEMATICS
INDIANA UNIVERSITY, BLOOMINGTON
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ED 028 930 NOT AVAILABLE FROM EDRS
68 115
*ACHIEVEMENT, *ELEMENTARY SCHOOL MATHEMATICS, *INSTRUCTION, *TEACHING PROCEDURES, COMPARATIVE ANALYSIS, GRADE 4, MATHEMATICS

121. SE 500 304
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